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PROTECO  
PENUELAS, PUERTO RICO

**2004  
ANNUAL INSPECTION AND MAINTENANCE REPORT  
RCRA UNITS**

U.S. ENV. PROT. AGENCY  
2005 MAY -9 AM 11:58  
CEPD-DIRECTOR OFFICE  
*Meza*

MARCH 2005

Rev. 5/9/05  
*Meza*

# PROTECO

## Annual Inspection and Maintenance Report

INSPECTION ITEM	CONDITION <sup>1</sup>			COMMENTS (Indicate Locations on Plan Sheet)
	NA	MN	IA	
<b>SECURITY CONTROL</b>				
Condition of Fence and Gates	X			Fencing and gates were found in good condition. All the gates were found close. See picture 15 Warning signs were visible. See picture 21 & 22 <i>Barely visible</i>
Condition of Signs	X	✓		
Other				
<b>EROSION CONTROLS/DAMAGE</b>				
Perimeter Ditches	X			All perimeter ditches were functioning as designed. See pictures 6,7,11 & 12. N/A
Sediment Traps	X			
Sediment Build-up	X			No sediment build up was observed in any of the culverts or perimeter ditches
Culvert End-Walls	X			The culverts end walls are in good conditions. See picture 13.
Brush/Trees/Debris	X			None observed.
Ponding or Wet Areas	X			None observed.
Riprap	X			Good condition See picture 12.
Other				
<b>FINAL COVER CONDITION</b>				
Undesirable Vegetation	X			None observed.
Erosion	X			None observed.
Drainage	X			All units are draining well with positive surface flow runoff.
Cracks	X			None observed.
Depressions/Ponded Water	X			None observed.
Settlement	X			None observed.
Surface Armor	X			The surface armor for all he units are in good conditions.
Burrows	X			None observed.

<sup>1</sup> NA, no action needed; MN, maintenance needed; IA, immediate attention needed

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	NA	MN	IA	
Other				On going maintenance are observed in all the units.
<b>GAS MANAGEMENT SYSTEM</b>				
Condition of Gas Vents	X			Good conditions. No gas measured from any of the gas vents.
Other				
<b>CAMU – LEACHATE COLLECTION SYSTEM</b>				
Depth of Leachate		X		The leachate level was no measured at the time of the annual inspection.
Other				
<b>BENCHMARKS</b>				
Condition		X		Benchmark 1 remains and is in good condition.
Elevation Surveyed		X		See table 1
Other				
<b>OTHER OBSERVATIONS</b>				
Survey Plat	X			No up-date to survey plat is needed.
Unit 9 (CAMU)	X			Unit 9 is in good condition. See picture 9.
Sediment Basin	X			The sediment basin is being maintained by the adjacent landfill operations as part of their on-going land operations and in accordance with their approved Puerto Rico Environmental Quality Board permit.
Precipitation	X			Total precipitation 21"

<sup>1</sup> NA, no action needed; MN, maintenance needed; IA, immediate attention needed

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	NA	MN	IA	

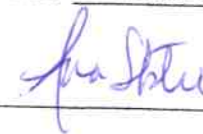
Unit 1	No maintenance or repairs required.	PROTECO		
Unit 2/3	No maintenance or repairs required	PROTECO		
Unit 5	No maintenance or repairs required.	PROTECO		
Unit 9	No maintenance or repairs required	PROTECO		
Unit 10/11	No maintenance or repairs required.	PROTECO		
Unit 12/16	No maintenance or repairs required	PROTECO		
Unit 13	No maintenance or repairs required	PROTECO		
Unit 17	No maintenance or repairs required	PROTECO		

**DATE OF REPORT:**

March 14, 2005

**INSPECTOR:** Ana Sabatier

(print)



(signature)

<sup>1</sup> NA, no action needed; MN, maintenance needed; IA, immediate attention needed

Proteco, Closed RCRA Hazardous Waste Units  
2004 Annual Inspection Report

PHOTOGRAPHS

March 21, 2005





**Picture 1:** Overall view of units 1, 2/3 & 5



**Picture 2 :** Overall view of units 9, 10/11, 12/16, 13 & 17



**Picture 3 :** South View of unit 1



**Picture 4 :** View of top unit 1



**Picture 5 :** View of top of unit 2/3



**Picture 6 :** View of west side and perimeter ditch of unit 2/3.





**Picture 7 :** Perimeter ditch, south, of unit 2/3



**Picture 8 :** View of top of unit 5



**Picture 9 :** View of unit 9



**Picture 10 :** View of top of unit 10/11



**Picture 11** : Perimeter ditch west of unit 9.



**Picture 12** : Perimeter ditch south of Unit 9, rip-rap and culvert at the end of the channel.





**Picture 13 :** View of culverts by unit 9.



**Picture 14 :** New pump station for unit 9 (CAMU).





**Picture 15** : View of gate to unit 9.



**Picture 16** : View of unit 13, 10/11 & 9 in the background.



**Picture 17 :** View of unit 13 and unit 17 ( background ).



**Picture 18 :** View of perimeter ditch east of unit 13 & 10/11.



**Picture 19 :** View of unit 17.



**Picture 20 :** South view of units 12/16.



*I'd say, barely visible!*



Picture 21 & 22 : Sign Conditions





Table 1

## ANNUAL SETTLEMENT SURVEY DATA

COORDINATES		2001 Elev. Data	2005 Elev. Data	Annual Dif. From fourth year
66851.61	407225.5	327.84	327.82	-0.02
66761.86	407209.8	325.54	325.49	-0.05
66778.94	407406.72	329.33	329.29	-0.04
66728.33	407397.42	326.77	326.76	-0.01
66525.58	407254.89	321.38	321.61	0.23
66460.28	407204.55	320.09	319.94	-0.15
66194.5	407092.14	336.38	336.35	-0.03
66147.62	407056.21	335.98	335.92	-0.06
66291.28	406921.44	299.69	299.5	-0.19
66382.11	406965.51	302.33	302.34	0.01
66460.97	407001.7	303.89	303.88	-0.01
66546.79	407049.48	304.88	304.82	-0.06
68069.92	407223.42	408	407.94	-0.06
68079.11	407286.62	408.7	408.66	-0.04
68078.74	407286.93	408.52	408.5	-0.02
68086.63	407349.49	407.79	407.81	0.02
67920.25	406999.48	381.17	381.15	-0.02
67947.87	406960.09	382.51	382.51	0
67699.45	407075.43	358.8	358.8	0
67687.8	407131.3	359.33	359.37	0.04
67701.82	407185.77	361.57	361.63	0.06



April 5, 2005

Proteco

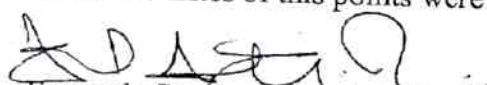
Re: Level Certification.

I, Fernando Santiago Rosario, PLS, register num. 17316; certify that the elevations listed below are correct:

POINT	NORTHING (ft.)	EASTING (ft.)	ELEV. (ft.)
1	66851.6338	407225.8863	327.82
2	66761.9465	407209.9854	325.49
3	66779.3200	407406.1517	329.29
4	66729.1272	407395.4512	326.76
5	66525.5154	407255.1193	321.61
6	66460.0608	407205.2622	319.94
7	66194.7029	407091.8765	336.35
8	66147.0836	407056.3206	335.92
9	66291.1468	406920.8751	299.50
10	66382.2359	406966.1187	302.34
11	66460.6591	407001.7604	303.88
12	66546.1668	407048.4799	304.82
13	68069.3842	407222.4801	407.94
14	68079.2273	407287.1867	408.66
15	68078.2961	407286.5628	408.50
16	68086.9279	407349.3861	407.81
17	67919.6806	406998.3693	381.15
18	67947.8098	406959.9169	382.51
19	67699.7939	407074.9193	358.80
20	67687.1419	407131.0876	359.37
21	67700.7894	407186.0676	361.63



The coordinates of this points were supplied, and the horizontal and vertical controls as well.

  
Fernando Santiago Rosario, PLS